

# 2-Ethylhexyl 2-phenoxybutyrate

<b>Inchi:</b>	InChI=1S/C18H28O3/c1-4-7-11-15(5-2)14-20-18(19)17(6-3)21-16-12-9-8-10-13-16/h8-10
<b>InchiKey:</b>	OPTLGOZUDPLGKB-UHFFFAOYSA-N
<b>Formula:</b>	C18H28O3
<b>SMILES:</b>	CCCCC(CC)COC(=O)C(CC)Oc1ccccc1
<b>Mol. weight [g/mol]:</b>	292.41

## Physical Properties

Property code	Value	Unit	Source
gf	-130.71	kJ/mol	Joback Method
hf	-565.90	kJ/mol	Joback Method
hfus	33.35	kJ/mol	Joback Method
hvap	68.73	kJ/mol	Joback Method
log10ws	-4.93		Crippen Method
logp	4.604		Crippen Method
mcvol	254.030	ml/mol	McGowan Method
pc	1514.03	kPa	Joback Method
rinpol	1871.00		NIST Webbook
tb	735.75	K	Joback Method
tc	932.65	K	Joback Method
tf	383.43	K	Joback Method
vc	0.966	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	741.74	J/molxK	735.75	Joback Method
cpg	759.64	J/molxK	768.57	Joback Method
cpg	776.46	J/molxK	801.38	Joback Method
cpg	792.22	J/molxK	834.20	Joback Method
cpg	806.95	J/molxK	867.01	Joback Method
cpg	820.67	J/molxK	899.83	Joback Method
cpg	833.40	J/molxK	932.65	Joback Method
dvisc	0.0016164	Paxs	383.43	Joback Method
dvisc	0.0006558	Paxs	442.15	Joback Method

dvisc	0.0003287	Paxs	500.87	Joback Method
dvisc	0.0001905	Paxs	559.59	Joback Method
dvisc	0.0001224	Paxs	618.31	Joback Method
dvisc	0.0000849	Paxs	677.03	Joback Method
dvisc	0.0000625	Paxs	735.75	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R540306&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R540306&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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